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Title: Statement of Work-Volume Control Dampers

Author(s): Spitzmiller, TJ

Intended for: ASM Publication

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Author(s):	Michael A. Murphy TJ Spitzmiller
Intended for:	Fed Biz Ops Green Network External Trade Advertising

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Form 836 (7/06)

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Last	First	Middle	Z No.	Group or affiliation
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Spitzmiller	TJ		306588	ASM-DEP

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TJ Spitzmiller	K Murphy for TJ SPITZMILLER	8-11-11

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Safety Volume Controlled Dampers

4. Page/Image Count 38

5. Type of Information

☐ Abstract ☐ Full Paper/Report
☐ Summary ☐ Poster
☐ Audio-Visual (*abstract required*)
☐ Viewgraphs/Presentations (*abstract required*)
☒ Other: SOW

Intended for:

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Form 678 (05/10)

Notice for Federal Business Opportunities

General Information

Document Type: **Sources Sought**

Solicitation Number: **146201**
Title: **Safety Related Volume Control Dampers**

Response Date: 8/22/11

Classification Code: 12
Set Aside: **No**
NAICS: 332322 and 334512

Is this a Recovery Act project? (NO)
Contracting Office Address

Department of Energy, Los Alamos National Laboratory (DOE Contractor), PO Box 1663 MS D442, Los Alamos, NM 87545.

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Los Alamos
NATIONAL LABORATORY
EST. 1943

Request For Expression of Interest
Design, Fabricate, and Deliver

Safety Related Volume-Control Dampers

For

The Chemistry & Metallurgy Research Replacement (CMRR) Facility.

Los Alamos National Laboratory (LANL) is seeking Expressions of Interest and Prequalification Data from qualified firms for the services described below.

GENERAL NOTES:

The Chemistry and Metallurgy Research Replacement (CMRR) Project is issuing Requests for Expressions of Interest and Prequalification Data (REO) for potential procurements of engineered equipment for the planned CMRR Nuclear Facility at the Los Alamos National laboratory. A bidders list will be developed for each type of engineered equipment to be procured. This action will be followed by issuance of formal Requests for Proposal (RFP) and the bid, evaluate, award (BEA) cycle will follow. The successful bidder will be released to perform design activities upon award.

The balance of the work (material purchase, fabrication, delivery) will be released upon completion of the Supplemental Environmental Impact Study (SEIS), the Record of Decision (ROD), and National Nuclear Security Administration's (NNSA) authorization to proceed.

The reason for proceeding in this manner is to resolve design criteria, allow for design progress, and reduce design risk without reaching a final design that commits the agency to a single option.

This request does not represent any confirmation by LANS of inclusion on the final bidders list, notification of subcontract award or authorization to commence any work related to this request. Equipment fabrication is not currently authorized and will be dependent upon Government approval after the NEPA process is complete.

SCOPE OF WORK:

The CMRR Project will need Safety Related Control Dampers for the CMRR Nuclear Facility HVAC system at Technical Area 55 of the Los Alamos National Laboratory (LANL). There are a total of 609 damper assemblies in varying sizes and configurations such as indicated in Table 1 attached.

The Safety Related Volume-Control Dampers shall be constructed to meet and exceed the functional requirements and quality standards defined by ASME AG-1-2003, Code on Nuclear

Air and Gas Treatment, and NQA-1 2008 with 2009 addenda, Quality Assurance Requirements for Nuclear Facility Applications. Additional requirements include but are not limited to:

1) To meet seismic qualification requirements for Performance Category PC-2, and PC-3.
2) To provide ventilation zone control and separation.
3) Damper testing according to ANSI/AMCA 500-D, Laboratory Methods of Testing Dampers for Rating, 2007.

Supplier to provide testing for the requirements identified above.

Installation of the dampers will be done by others under the supervision of the successful bidder.

SUPPLIER REQUIREMENTS:

Demonstrated safety performance equal to or lower than the following standards:

Statistical Standards		
Experience Modification Rate	The "EMR" is a number that is assigned to your company based on the insurance premium you pay and your loss statistics. Contact your insurance company for these numbers.	Maximum Allowable Average: **1.00**
Total Recordable Injury/Illness Case Rate (from Company OSHA 300 log)	Rate = Total Recordable Injuries/Illnesses x 200,000 / Total Employee Hours Worked	Maximum Allowable Average: **3.2**
DART Case Rate (Days Away From Work, Restriction, or Job Transfer) (from Company OSHA 300 log)	Rate = Total Days Away/Restricted/Transferred Work Day Cases x 200,000 / Total Employee Hours Worked	Maximum Allowable Average: **1.4**

- Minimum of 5 years experience providing like equipment
- Provide your Organizational structure
- Table of contents from your Quality Assurance Manual and completion of the attached Quality Questionnaire.
- Listing of references who can confirm your capabilities. References must be based on work performed within the last 5 years, but with an emphasis on the last 3 years.

Interested contractors that meet the above criteria may contact Mike Murphy, CMRR Purchasing Manager (mamurphy@lanl.gov), TJ Spitzmiller, CMRR Procurement (tjspitz@lanl.gov) or Theresa Paisano (theresap@lanl.gov).

Client Tag	Primary Drawing Number (P&ID)	Physical Drawing Number	Damper Material	Damper Size	Design Flow Rate (cfm)	Frame/Seat Leakage Class	Safety Classification	Seismic Classification	Notes
HVAV-VD-0049	MH-66800		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0052	MH-66800		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0001	MH-66807		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0002	MH-66807		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0003	MH-66807		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0004	MH-66807		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0005	MH-66807		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0006	MH-66807		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0007	MH-66807		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0008	MH-66807		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0009	MH-66807		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0010	MH-66807		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0011	MH-66807		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0012	MH-66807		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0013	MH-66807		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0014	MH-66807		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0015	MH-66807		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0016	MH-66807		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0017	MH-66807		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0018	MH-66807		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0021	MH-66807		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0022	MH-66807		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0023	MH-66807		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0024	MH-66807		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0025	MH-66807		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0026	MH-66807		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0027	MH-66807		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0028	MH-66807		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0029	MH-66807		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0030	MH-66807		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0032	MH-66807		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0060	MH-66807		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0033	MH-66808		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0034	MH-66808		STAINLESS	Later	Later	A/-	SS	PC3	

Client Tag	Primary Drawing Number (P&ID)	Physical Drawing Number	Damper Material	Damper Size	Design Flow Rate (cfm)	Frame/Seat Leakage Class	Safety Classification	Seismic Classification	Notes
HVAV VD 0035	MH 66808		STAINLESS	Later	Later	A/	SS	PC3	
HVAV-VD-0036	MH-66808		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0037	MH-66808		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0038	MH-66808		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0039	MH-66808		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0040	MH-66808		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0061	MH-66808		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0041	MH-66809		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0042	MH-66809		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0043	MH-66809		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0044	MH-66809		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0045	MH-66809		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0046	MH-66809		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0047	MH-66809		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0019	MH-66810		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0048	MH-66810		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0050	MH-66810		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV VD 0051	MH 66810		STAINLESS	Later	Later	A/	SS	PC3	
HVAV-VD-0020	MH-66811		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0053	MH-66811		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0054	MH-66811		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0055	MH-66811		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0031	MH-66812		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0057	MH-66812		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0058	MH-66812		STAINLESS	Later	Later	A/-	SS	PC3	
HVAV-VD-0059	MH-66812		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0001	MH-67009		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0034	MH-67010		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0035	MH-67010		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0036	MH-67010		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0037	MH-67010		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0038	MH-67010		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0039	MH-67010		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0040	MH-67010		GALV.	Later	Later	B/-	SS	PC3	

Client Tag	Primary Drawing Number (P&ID)	Physical Drawing Number	Damper Material	Damper Size	Design Flow Rate (cfm)	Frame/Seat Leakage Class	Safety Classification	Seismic Classification	Notes
HVZ2-VD-0510	MH-67010		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0046	MH-67011		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0047	MH-67011		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0048	MH-67011		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0049	MH-67011		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0050	MH-67011		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0051	MH-67011		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0052	MH-67011		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0509	MH-67011		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0058	MH-67012		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0059	MH-67012		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0060	MH-67012		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0061	MH-67012		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0062	MH-67012		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0063	MH-67012		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0064	MH-67012		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0508	MH-67012		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0070	MH-67013		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0071	MH-67013		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0072	MH-67013		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0073	MH-67013		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0074	MH-67013		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0075	MH-67013		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0076	MH-67013		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0507	MH-67013		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0082	MH-67014		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0083	MH-67014		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0084	MH-67014		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0085	MH-67014		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0086	MH-67014		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0087	MH-67014		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0088	MH-67014		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0506	MH-67014		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0002	MH-67015		GALV	Later	Later	B/-	SS	PC3	

Client Tag	Primary Drawing Number (P&ID)	Physical Drawing Number	Damper Material	Damper Size	Design Flow Rate (cfm)	Frame/Seat Leakage Class	Safety Classification	Seismic Classification	Notes
HVZ2-VD-0394	MH-67015		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0094	MH-67016		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0095	MH-67016		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0096	MH-67016		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0097	MH-67016		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0098	MH-67016		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0099	MH-67016		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0100	MH-67016		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0505	MH-67016		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0106	MH-67017		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0107	MH-67017		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0108	MH-67017		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0109	MH-67017		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0110	MH-67017		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0111	MH-67017		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0112	MH-67017		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0504	MH-67017		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0118	MH-67018		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0119	MH-67018		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0120	MH-67018		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0121	MH-67018		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0122	MH-67018		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0123	MH-67018		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0124	MH-67018		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0503	MH-67018		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0130	MH-67019		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0131	MH-67019		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0132	MH-67019		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0133	MH-67019		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0134	MH-67019		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0135	MH-67019		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0136	MH-67019		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0502	MH-67019		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0142	MH-67020		GALV.	Later	Later	B/-	SS	PC3	

Client Tag	Primary Drawing Number (P&ID)	Physical Drawing Number	Damper Material	Damper Size	Design Flow Rate (cfm)	Frame/Seat Leakage Class	Safety Classification	Seismic Classification	Notes
HVZ2-VD-0143	MH-67020		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0144	MH-67020		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0145	MH-67020		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0146	MH-67020		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0147	MH-67020		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0148	MH-67020		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0501	MH-67020		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0003	MH-67021		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0154	MH-67022		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0155	MH-67022		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0156	MH-67022		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0157	MH-67022		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0158	MH-67022		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0159	MH-67022		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0160	MH-67022		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0520	MH-67022		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0166	MH-67023		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0167	MH-67023		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0168	MH-67023		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0169	MH-67023		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0170	MH-67023		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0171	MH-67023		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0172	MH-67023		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0519	MH-67023		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0178	MH-67024		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0179	MH-67024		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0180	MH-67024		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0181	MH-67024		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0182	MH-67024		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0183	MH-67024		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0184	MH-67024		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0518	MH-67024		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0190	MH-67025		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0191	MH-67025		GALV.	Later	Later	B/-	SS	PC3	

Client Tag	Primary Drawing Number (P&ID)	Physical Drawing Number	Damper Material	Damper Size	Design Flow Rate (cfm)	Frame/Seat Leakage Class	Safety Classification	Seismic Classification	Notes
HVZ2-VD-0192	MH-67025		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0193	MH-67025		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0194	MH-67025		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0195	MH-67025		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0196	MH-67025		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0517	MH-67025		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0202	MH-67026		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0203	MH-67026		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0204	MH-67026		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0205	MH-67026		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0206	MH-67026		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0207	MH-67026		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0208	MH-67026		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0516	MH-67026		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0004	MH-67027		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0214	MH-67028		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0215	MH-67028		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0216	MH-67028		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0217	MH-67028		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0218	MH-67028		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0219	MH-67028		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0220	MH-67028		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0515	MH-67028		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0226	MH-67029		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0227	MH-67029		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0228	MH-67029		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0229	MH-67029		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0230	MH-67029		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0231	MH-67029		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0232	MH-67029		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0514	MH-67029		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0238	MH-67030		GALV.	Later	Later	B/-	SS	PC3	
HVZ2 VD 0239	MH 67030		GALV.	Later	Later	B/	SS	PC3	
HVZ2-VD-0240	MH-67030		GALV.	Later	Later	B/-	SS	PC3	

Client Tag	Primary Drawing Number (P&ID)	Physical Drawing Number	Damper Material	Damper Size	Design Flow Rate (cfm)	Frame/Seat Leakage Class	Safety Classification	Seismic Classification	Notes
HVZ2-VD-0241	MH-67030		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0242	MH-67030		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0243	MH-67030		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0244	MH-67030		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0513	MH-67030		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0250	MH-67031		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0251	MH-67031		GALV.	Later	Later	B/-	SS	PC3	
HVZ2 VD 0252	MH 67031		GALV.	Later	Later	B/	SS	PC3	
HVZ2-VD-0253	MH-67031		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0254	MH-67031		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0255	MH-67031		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0256	MH-67031		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0512	MH-67031		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0262	MH-67032		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0263	MH-67032		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0264	MH-67032		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0265	MH-67032		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0266	MH-67032		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0267	MH-67032		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0268	MH-67032		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0511	MH-67032		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0005	MH-67033		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0274	MH-67034		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0275	MH-67034		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0276	MH-67034		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0277	MH-67034		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0278	MH-67034		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0279	MH-67034		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0280	MH-67034		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0530	MH-67034		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0286	MH-67035		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0287	MH-67035		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0288	MH-67035		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0289	MH-67035		GALV.	Later	Later	B/-	SS	PC3	

Client Tag	Primary Drawing Number (P&ID)	Physical Drawing Number	Damper Material	Damper Size	Design Flow Rate (cfm)	Frame/Seat Leakage Class	Safety Classification	Seismic Classification	Notes
HVZ2-VD-0290	MH-67035		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0291	MH-67035		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0292	MH-67035		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0529	MH-67035		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0298	MH-67036		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0299	MH-67036		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0300	MH-67036		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0301	MH-67036		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0302	MH-67036		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0303	MH-67036		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0304	MH-67036		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0528	MH-67036		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0310	MH-67037		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0311	MH-67037		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0312	MH-67037		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0313	MH-67037		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0314	MH-67037		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0315	MH-67037		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0316	MH-67037		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0527	MH-67037		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0322	MH-67038		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0323	MH-67038		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0324	MH-67038		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0325	MH-67038		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0326	MH-67038		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0327	MH-67038		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0328	MH-67038		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0526	MH-67038		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0006	MH-67039		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0334	MH-67040		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0335	MH-67040		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0336	MH-67040		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0337	MH-67040		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0338	MH-67040		GALV.	Later	Later	B/-	SS	PC3	

Client Tag	Primary Drawing Number (P&ID)	Physical Drawing Number	Damper Material	Damper Size	Design Flow Rate (cfm)	Frame/Seat Leakage Class	Safety Classification	Seismic Classification	Notes
HVZ2-VD-0339	MH-67040		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0340	MH-67040		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0525	MH-67040		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0346	MH-67041		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0347	MH-67041		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0348	MH-67041		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0349	MH-67041		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0350	MH-67041		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0351	MH-67041		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0352	MH-67041		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0524	MH-67041		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0358	MH-67042		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0359	MH-67042		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0360	MH-67042		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0361	MH-67042		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0362	MH-67042		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0363	MH-67042		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0364	MH-67042		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0523	MH-67042		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0370	MH-67043		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0371	MH-67043		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0372	MH-67043		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0373	MH-67043		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0374	MH-67043		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0375	MH-67043		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0376	MH-67043		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0522	MH-67043		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0382	MH-67044		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0383	MH-67044		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0384	MH-67044		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0385	MH-67044		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0386	MH-67044		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0387	MH-67044		GALV	Later	Later	B/-	SS	PC3	
HVZ2-VD-0388	MH-67044		GALV	Later	Later	B/-	SS	PC3	

Client Tag	Primary Drawing Number (P&ID)	Physical Drawing Number	Damper Material	Damper Size	Design Flow Rate (cfm)	Frame/Seat Leakage Class	Safety Classification	Seismic Classification	Notes
HVZ2-VD-0521	MH-67044		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0410	MH-67045		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0411	MH-67045		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0531	MH-67045		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0532	MH-67045		GALV.	Later	Later	B/-	SS	PC3	
HVZ2-VD-0007	MH-67047		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0011	MH-67047		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0013	MH-67047		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0014	MH-67047		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0015	MH-67047		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0016	MH-67047		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0395	MH-67047		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0396	MH-67047		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0397	MH-67047		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0398	MH-67047		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0399	MH-67047		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0400	MH-67047		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0401	MH-67047		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0402	MH-67047		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0570	MH-67047		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0017	MH-67048		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0018	MH-67048		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0020	MH-67048		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0022	MH-67048		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0032	MH-67048		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0033	MH-67048		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0403	MH-67048		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0404	MH-67048		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0405	MH-67048		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0406	MH-67048		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0407	MH-67048		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0409	MH-67048		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0540	MH-67060		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0541	MH-67060		STAINLESS	Later	Later	A/-	SS	PC3	

Client Tag	Primary Drawing Number (P&ID)	Physical Drawing Number	Damper Material	Damper Size	Design Flow Rate (cfm)	Frame/Seat Leakage Class	Safety Classification	Seismic Classification	Notes
HVZ2-VD-0542	MH-67060		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0543	MH-67061		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0544	MH-67061		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0545	MH-67061		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0546	MH-67062		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0547	MH-67062		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0548	MH-67062		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0549	MH-67062		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0550	MH-67063		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0551	MH-67063		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0552	MH-67064		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0553	MH-67064		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0554	MH-67064		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0555	MH-67064		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0556	MH-67064		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0557	MH-67064		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0558	MH-67064		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0559	MH-67064		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0560	MH-67064		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ2-VD-0561	MH-67064		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ3-VD-0077	MH-67406		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0078	MH-67406		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0079	MH-67406		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0080	MH-67406		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0081	MH-67406		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0082	MH-67406		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0083	MH-67406		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0085	MH-67406		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0086	MH-67406		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0087	MH-67406		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0088	MH-67407		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0089	MH-67407		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0090	MH-67407		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0091	MH-67407		GALV.	Later	Later	B/-	SS	PC2	

Client Tag	Primary Drawing Number (P&ID)	Physical Drawing Number	Damper Material	Damper Size	Design Flow Rate (cfm)	Frame/Seat Leakage Class	Safety Classification	Seismic Classification	Notes
HVZ3-VD-0092	MH-67407		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0093	MH-67407		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0230	MH-67407		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0330	MH-67407		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0331	MH-67407		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0004	MH-67408		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0095	MH-67408		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0096	MH-67408		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0097	MH-67408		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0098	MH-67408		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0100	MH-67408		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0101	MH-67408		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0102	MH-67408		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0103	MH-67408		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0205	MH-67408		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0219	MH-67408		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0231	MH-67408		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0232	MH-67408		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0233	MH-67408		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0234	MH-67408		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0116	MH-67409		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0117	MH-67409		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0118	MH-67409		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0119	MH-67409		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0235	MH-67409		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0236	MH-67409		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0237	MH-67409		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0250	MH-67409		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0130	MH-67410		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0238	MH-67410		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0240	MH-67410		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0241	MH-67410		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0120	MH-67410		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0126	MH-67410		GALV.	Later	Later	B/-	SS	PC2	

Client Tag	Primary Drawing Number (P&ID)	Physical Drawing Number	Damper Material	Damper Size	Design Flow Rate (cfm)	Frame/Seat Leakage Class	Safety Classification	Seismic Classification	Notes
HVZ3-VD-0127	MH-67410		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0128	MH-67410		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0206	MH-67410		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0207	MH-67410		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0211	MH-67410		GALV.	Later	Later	B/-	SS	PC2	
HVZ3VD-0212	MH-67410		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0213	MH-67410		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0129	MH-67411		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0243	MH-67411		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0244	MH-67411		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0245	MH-67411		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0246	MH-67411		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0247	MH-67411		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0248	MH-67411		GALV	Later	Later	C/-	SS	PC2	
HVZ3-VD-0121	MH-67411		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0122	MH-67411		GALV.	Later	Later	B/-	SS	PC2	
HVZ3 VD 0123	MH 67411		GALV.	Later	Later	B/	SS	PC2	
HVZ3-VD-0124	MH-67411		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0125	MH-67411		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0208	MH-67411		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0209	MH-67411		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0210	MH-67411		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0214	MH-67411		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0215	MH-67411		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0216	MH-67411		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0242	MH-67411		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0139	MH-67412		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0140	MH-67412		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0131	MH-67412		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0134	MH-67412		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0135	MH-67412		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0137	MH-67412		GALV	Later	Later	B/-	SS	PC2	
HVZ3-VD-0218	MH-67412		GALV.	Later	Later	B/-	SS	PC2	
HVZ3 VD 0220	MH 67412		GALV.	Later	Later	B/	SS	PC2	

Client Tag	Primary Drawing Number (P&ID)	Physical Drawing Number	Damper Material	Damper Size	Design Flow Rate (cfm)	Frame/Seat Leakage Class	Safety Classification	Seismic Classification	Notes
HVZ3-VD-0160	MH-67413		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0161	MH-67413		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0162	MH-67413		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0163	MH-67413		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0165	MH-67413		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0141	MH-67413		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0154	MH-67413		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0155	MH-67413		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0156	MH-67413		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0157	MH-67413		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0158	MH-67413		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0166	MH-67414		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0167	MH-67414		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0168	MH-67414		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0169	MH-67414		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0172	MH-67415		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0173	MH-67415		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0221	MH-67415		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0332	MH-67415		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0333	MH-67415		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0110A	MH-67600		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0112	MH-67600		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0132	MH-67600		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0133	MH-67600		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0110B	MH-67603		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0110C	MH-67606		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0012	MH-67609		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0015	MH-67609		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0023	MH-67609		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0001	MH-67609		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0002	MH-67609		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0003	MH-67609		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0004	MH-67609		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0005	MH-67609		GALV.	Later	Later	B/-	SS	PC2	

Client Tag	Primary Drawing Number (P&ID)	Physical Drawing Number	Damper Material	Damper Size	Design Flow Rate (cfm)	Frame/Seat Leakage Class	Safety Classification	Seismic Classification	Notes
HVZ3-VD-0006	MH-67609		GALV	Later	Later	B/-	SS	PC2	
HVZ3-VD-0007	MH-67609		GALV	Later	Later	B/-	SS	PC2	
HVZ3-VD-0008	MH-67609		GALV	Later	Later	B/-	SS	PC2	
HVZ3-VD-0009	MH-67609		GALV	Later	Later	B/-	SS	PC2	
HVZ3-VD-0010	MH-67609		GALV	Later	Later	B/-	SS	PC2	
HVZ3-VD-0011	MH-67609		GALV	Later	Later	B/-	SS	PC2	
HVZ3-VD-0176	MH-67609		GALV	Later	Later	B/-	SS	PC2	
HVZ3-VD-0038	MH-67610		GALV	Later	Later	C/-	SS	PC2	
HVZ3-VD-0013	MH-67610		GALV	Later	Later	B/-	SS	PC2	
HVZ3-VD-0014	MH-67610		GALV	Later	Later	B/-	SS	PC2	
HVZ3-VD-0177	MH-67610		GALV	Later	Later	B/-	SS	PC2	
HVZ3-VD-0178	MH-67610		GALV	Later	Later	B/-	SS	PC2	
HVZ3-VD-0179	MH-67610		GALV	Later	Later	B/-	SS	PC2	
HVZ3-VD-0020	MH-67611		GALV	Later	Later	C/-	SS	PC2	
HVZ3-VD-0021	MH-67611		GALV	Later	Later	C/-	SS	PC2	
HVZ3-VD-0200	MH-67611		GALV	Later	Later	C/-	SS	PC2	
HVZ3-VD-0016	MH-67611		GALV	Later	Later	B/-	SS	PC2	
HVZ3-VD-0017	MH-67611		GALV	Later	Later	B/-	SS	PC2	
HVZ3-VD-0018	MH-67611		GALV	Later	Later	B/-	SS	PC2	
HVZ3-VD-0019	MH-67611		GALV	Later	Later	B/-	SS	PC2	
HVZ3-VD-0152	MH-67611		GALV	Later	Later	B/-	SS	PC2	
HVZ3-VD-0199	MH-67611		GALV	Later	Later	B/-	SS	PC2	
HVZ3-VD-0022	MH-67612		GALV	Later	Later	C/-	SS	PC2	
HVZ3-VD-0049	MH-67612		GALV	Later	Later	C/-	SS	PC2	
HVZ3-VD-0026	MH-67612		GALV	Later	Later	B/-	SS	PC2	
HVZ3-VD-0027	MH-67612		GALV	Later	Later	B/-	SS	PC2	
HVZ3-VD-0029	MH-67612		GALV	Later	Later	B/-	SS	PC2	
HVZ3-VD-0030	MH-67612		GALV	Later	Later	B/-	SS	PC2	
HVZ3-VD-0031	MH-67612		GALV	Later	Later	B/-	SS	PC2	
HVZ3-VD-0183	MH-67612		GALV	Later	Later	B/-	SS	PC2	
HVZ3-VD-0025	MH-67613		GALV	Later	Later	C/-	SS	PC2	
HVZ3-VD-0181	MH-67613		GALV	Later	Later	C/-	SS	PC2	
HVZ3-VD-0032	MH-67613		GALV	Later	Later	B/-	SS	PC2	
HVZ3-VD-0075	MH-67613		GALV	Later	Later	B/-	SS	PC2	

Client Tag	Primary Drawing Number (P&ID)	Physical Drawing Number	Damper Material	Damper Size	Design Flow Rate (cfm)	Frame/Seat Leakage Class	Safety Classification	Seismic Classification	Notes
HVZ3-VD-0180	MH-67613		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0182	MH-67613		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0039	MH-67614		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0033	MH-67614		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0034	MH-67614		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0035	MH-67614		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0036	MH-67614		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0037	MH-67614		GALV.	Later	Later	B/-	SS	PC2	
HVZ3 VD 0045	MH 67615		GALV.	Later	Later	C/	SS	PC2	
HVZ3-VD-0046	MH-67615		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0113	MH-67615		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0040	MH-67615		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0041	MH-67615		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0042	MH-67615		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0043	MH-67615		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0044	MH-67615		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0047	MH-67615		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0048	MH-67615		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0056	MH-67616		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0057	MH-67616		GALV.	Later	Later	C/-	SS	PC2	
HVZ3 VD 0058	MH 67616		GALV.	Later	Later	C/	SS	PC2	
HVZ3-VD-0059	MH-67616		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0050	MH-67616		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0051	MH-67616		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0052	MH-67616		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0053	MH-67616		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0054	MH-67616		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0055	MH-67616		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0065	MH-67617		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0105	MH-67617		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0114	MH-67617		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0136	MH-67617		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0060	MH-67617		GALV.	Later	Later	B/-	SS	PC2	
HVZ3 VD 0061	MH 67617		GALV.	Later	Later	B/	SS	PC2	

Client Tag	Primary Drawing Number (P&ID)	Physical Drawing Number	Damper Material	Damper Size	Design Flow Rate (cfm)	Frame/Seat Leakage Class	Safety Classification	Seismic Classification	Notes
HVZ3-VD-0062	MH-67617		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0063	MH-67617		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0064	MH-67617		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0066	MH-67617		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0067	MH-67617		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0068	MH-67617		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0094	MH-67617		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0108	MH-67618		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0109	MH-67618		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0142	MH-67618		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0143	MH-67618		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0144	MH-67618		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0145	MH-67618		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0146	MH-67618		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0159	MH-67618		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0164	MH-67618		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0069	MH-67618		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0070	MH-67618		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0071	MH-67618		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0072	MH-67618		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0073	MH-67618		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0074	MH-67618		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0076	MH-67618		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0104	MH-67618		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0106	MH-67618		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0150	MH-67619		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0153	MH-67619		GALV.	Later	Later	C/-	SS	PC2	
HVZ3-VD-0107	MH-67619		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0115	MH-67619		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0147	MH-67619		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0148	MH-67619		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0149	MH-67619		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0151	MH-67619		GALV.	Later	Later	B/-	SS	PC2	
HVZ3-VD-0099	MH-67627		GALV.	Later	Later	C/	SS	PC2	

Client Tag	Primary Drawing Number (P&ID)	Physical Drawing Number	Damper Material	Damper Size	Design Flow Rate (cfm)	Frame/Seat Leakage Class	Safety Classification	Seismic Classification	Notes
HVZ3-VD-0303	MH-67900		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ3-VD-0304	MH-67900		STAINLESS	Later	Later	A/-	SS	PC3	
HVZ3-VD-0305	MH-67903		GALV.	Later	Later	B/-	SS	PC3	
HVZ3-VD-0306	MH-67903		GALV.	Later	Later	B/-	SS	PC3	
HVZ3-VD-0307	MH-67903		GALV.	Later	Later	B/-	SS	PC3	
HVZ3-VD-0308	MH-67903		GALV.	Later	Later	B/-	SS	PC3	
HVZ3-VD-0310	MH-67903		GALV.	Later	Later	B/-	SS	PC3	
HVZ3-VD-0314	MH-67903		GALV.	Later	Later	B/-	SS	PC3	
HVZ3-VD-0315	MH-67903		GALV.	Later	Later	B/-	SS	PC3	
HVZ3-VD-0316	MH-67903		GALV.	Later	Later	B/-	SS	PC3	
HVZ3-VD-0317	MH-67903		GALV.	Later	Later	B/-	SS	PC3	
HVZ3-VD-0318	MH-67904		GALV.	Later	Later	B/-	SS	PC3	
HVZ3-VD-0319	MH-67904		GALV.	Later	Later	B/-	SS	PC3	
HVAD-VD-0030	MH-69000		GALV.	Later	Later	C/-	SS	PC3	
HVAD-VD-0031	MH-69000		GALV.	Later	Later	C/-	SS	PC3	
HVAD-VD-0003A	MH-69001		GALV.	Later	Later	C/-	SS	PC3	
HVAD-VD-0032	MH-69100		GALV.	Later	Later	C/-	SS	PC3	
HVAD-VD-0033	MH-69100		GALV.	Later	Later	C/-	SS	PC3	
HVAD-VD-0003B	MH-69101		GALV.	Later	Later	C/-	SS	PC3	
HVAE-VD-0005	MH-69700		GALV.	Later	Later	B/-	SS	PC3	
HVAE-VD-0006	MH-69700		GALV.	Later	Later	B/-	SS	PC3	
HVAE-VD-0007	MH-69700		GALV.	Later	Later	B/-	SS	PC3	
HVAE-VD-0008	MH-69700		GALV.	Later	Later	B/-	SS	PC3	
HVAE-VD-0009	MH-69700		GALV.	Later	Later	B/-	SS	PC3	
HVAE-VD-0010	MH-69700		GALV.	Later	Later	B/-	SS	PC3	
HVAE-VD-0011	MH-69700		GALV.	Later	Later	B/-	SS	PC3	
HVAE-VD-0012	MH-69700		GALV.	Later	Later	B/-	SS	PC3	
HVAE-VD-0015	MH-69700		GALV.	Later	Later	B/-	SS	PC3	
HVAE-VD-0016	MH-69700		GALV.	Later	Later	B/-	SS	PC3	

General Notes

1. Leakage Class per ASME AG-1, Appendix DA-I.
2. Seat Leakage does not apply and is indicated by a dash (-).

SUPPLIER / CONTRACTOR QUESTIONAIRE

Enter Dun and Bradstreet (DUNS) Number:	

1. GENERAL INFORMATION

NAME OF COMPANY (Full Legal Name)

STREET ADDRESS	CITY - STATE - ZIP CODE
MAILING ADDRESS	CITY - STATE - ZIP CODE

TELEPHONE	FACSIMILE	E-MAIL
WEBSITE	TELEX/TWX/CABLE	OTHER

A. Type of Business (check box or boxes) ☐ CORPORATION OR COMPANY ☐ SUBSIDIARY ☐ DIVISION ☐ PARTNERSHIP

Name and location of Parent Company _____ DUNS No. _____

If a Division, enter name and location of Corporate Headquarters _____ DUNS No. _____

If more than one DUNS number applies to your operation, attach additional explanatory page(s).

B. Type of Facility (check box or boxes) ☐ MANUFACTURER/ FABRICATOR ☐ DISTRIBUTOR/ SUPPLY HOUSE ☐ ASSEMBLY/ SHOP ☐ MANUFACTURERS REPRESENTATIVE ☐ CONSTRUCTION ☐ ARCHITECT/ ENGINEER ☐ TECHNICAL SERVICE ☐ GENERAL SERVICE ☐ OTHER (SPECIFY) _____

C. Enter Applicable SIC Codes:	
D. Enter Applicable NAICS Codes (North America):	

E. Date Business Founded:		Under Present Ownership Since:	
F. Number of Employees (All Facilities)	Manual:		Non-Manual:

G. Small, Disadvantaged, Women-Owned or Veteran Status

Check Applicable Boxes ☐ SMALL ☐ WOMEN-OWNED ☐ DISADVANTAGED: ☐ HUB ZONE ☐ VETERAN OWNED ☐ SERVICE DISABLED VETERAN OWNED

2. FINANCIAL INFORMATION (This section MUST BE COMPLETED for consideration. Information is kept CONFIDENTIAL.)

A. Banking Reference:			
B. Annual Sales Volume (Last 3 Years):	YR ____ $ _____	YR ____ $ _____	YR ____ $ _____
C. Present Net Worth		Bank Phone No.	

Can you furnish a Performance Bond?	☐ Yes	☐ No									
If "Yes", indicate dollar limits.		To $250,000		To $500,000		To $1,000,000		To $5,000,000		To $10,000,000		$25,000,000 and up

Surety _____ Agent _____ Phone No. _____

D. If required, can you furnish a Bank Guarantee or Letter of Credit? ☐ Yes ☐ No If "Yes," indicate dollar limits below:

☐ To $250,000 ☐ To $500,000 ☐ To $1,000,000 ☐ To $5,000,000 ☐ To $10,000,000 ☐ $25,000,000 and Up

Surety _____ Bank _____ Phone No. _____

E. Current Financial Ratios (Public companies only)			
Working Capital / Total Assets		Retained Earnings / Total Assets	
Earnings Before Interest and Taxes / Total Assets		Market Value of Equity / Total Liabilities	
Sales / Total Assets			
F. Current Financial Ratios (Private companies only)			
(Current Assets-Current Liabilities) / Total Assets		Retained Earnings / Total Assets	
Earnings Before Interest and Taxes / Total Assets		Book Value of Equity / Total Liabilities	
Sales / Total Assets			

3. PERSONNEL (For this location –State "Not Applicable" if the position does not exist at this location)

A. President:		D. Engineering Manager:	
B. Sales Manager:		E. QA/QC Manager:	
C. Production Manager:		F. Field Support Manager:	

4. LABOR RELATIONS – Shop Fabrication

(List all crafts with which you have contracts and/or working agreements. Check here if not applicable: ☐

	CRAFT	EXPIRATION DATE		CRAFT	EXPIRATION DATE
1.			3.		
2.			4.		

5. PLANT OPERATIONS *(For this facility only. Use a separate Page 2 for other facilities)* Check here if not applicable ☐

A. Name/Address of This Facility *(if different than for facility named at top of Page 1)*

Name _____ Address _____ Phone _____

_____ _____ Facsimile _____

B. Number of Employees at This Facility:		C. Plant in Operation Since:	

D. Do you have a Quality Assurance/ program written to comply with the following:

Nuclear related activities – 10CFR 830, Subpart A and DOE Order O 414.1C, Contractor requirements document (Attachments 2, 3 and 4) as implemented through a quality assurance program compliant with ASME NQA-1-2000.

Other: Specify_____

Non Nuclear related activities – 10 CFR 830, Subpart A and DOE Order O 414.1.C, Contractor requirements document (Attachments 2, 3 and 4) as implemented through a quality assurance program compliant with ISO 9001-2000

Other: Specify_____

Nuclear ☐ Yes ☐ No Other Certification (Please Specify) _____

ISO 9001 ☐ Yes ☐ No Other Certification (Please Specify) _____

For your Quality Assurance/Quality Control program(s), attach the Table of Contents from relevant manual(s) or, on additional pages, describe the method and level of compliance standard(s).

E. Export Capabilities PROVIDE EXPORT PACKING? ☐ YES ☐ NO FAMILIAR WITH EXPORT FORMALITIES? ☐ YES ☐ NO

F. Shipping Facilities RAIL SIDING ☐ TRUCK DOCKS ☐ WATER ACCESS ☐ WATER ACCESS DRAFT _____ meters

6. BIDDING INTEREST AND QUALIFICATIONS

A. Indicate your relebant experience and qualifications as described in the attached "Scope of Work".
(Attach additional pages if necessary)

B. Indicate appropriate Contract/Purchase Order dollar range within which you prefer, and are currently able, to bid (i.e., $250,000 to $1,500,000)

$ to $

C. Indicate Industry or Code Certifications (ASME, API, TEMA, Class of Code-Stamp, etc.)

	CERTIFICATION	EXPIRATION DATE		CERTIFICATION	EXPIRATION DATE
1.			4.		
2.			5.		
3.			6.		

D. Subcontract Services (List type of work normally subcontracted to others)

7. PROFESSIONAL LICENSES

Indicate the work category you are licensed for and the area(s) (Country/State/Province) in which you hold each. Attach additional pages, if necessary.

	TYPE OF LICENSE	LOCATION		TYPE OF LICENSE	LOCATION
1.			4.		
2.			5.		
3.			6.		

8. ENGINEERING, ARCHTECTURAL AND OTHER TECHNICAL SERVICES CONTRACTORS / SPECIFIC DATA LISTINGS

A. In addition to circling applicable work categories in Appendix A (Goods and Services Codes), also indicate fields of specialization by your firm (i.e., chemical engineering, hydrology, geology, ecological surveying, etc.) on the bottom of the appendix.

B. List Personnel by Discipline (Number on Staff)

_____	Administrative	_____	Electrical Engineers	_____	Oceanographers
_____	Architects	_____	Estimators	_____	Planners (Urban/Regional)
_____	Chemical Engineers	_____	Geologists	_____	Sanitary Engineers
_____	Construction Inspectors	_____	Interior Designers	_____	Specification Writers
_____	Draftsman	_____	Landscape Architects	_____	Structural Engineers
_____	Ecologists	_____	Mechanical Engineers	_____	Surveyors
_____	Economists		Mining Engineers		Transportation Engineers

9. WORK HISTORY *(Complete the attached Work History form per Appendix "C" and attach to this Questionnaire)*

Also attach a list of permanent offices and any brochures that further describe your company's activities and capabilities. Please do not include product catalogs, inventory or price lists.

10. SAFETY & HEALTH EXPERIENCE *(Complete the attached S&H form per Appendix "D" and attach to this Questionnaire)*

11. SOCIAL AND ENVIRONMENT SUSTAINABILITY INITIATIVES *(Check all that are employed through company initiatives)*

☐ Written environmental policy	☐ Products that have achieved "Cradle-to-Cradle" certification
☐ Environmental performance integrated into corporate mission	☐ Policies and practices to minimize fuel usage or use of alternative energy
☐ Social performance integrated into corporate mission	☐ Initiatives to mitigate environmental impacts of finished

	products
☐ Annual report detailing its mission-related performance (e.g. corporate social and environmental targets)	☐ Code of conduct holding subsuppliers accountable for social and environmental performance

12. COMPLETED BY:	
SIGNATURE	TITLE
NAME	DATE

APPENDICES:

APPENDIX "A" – GLOSSARY FOR SMALL, DISADVANTAGED, WOMEN-OWNED AND VETERAN ENTERPRISES

APPENDIX "C" – CONTRACTOR/SUPPLIER WORK HISTORY

APPENDIX "D" – CONTRACTOR SAFETY & HEALTH QUALIFICATION DATA

APPENDIX A

GLOSSARY FOR SMALL, DISADVANTAGED, WOMEN-OWNED, AND VETERAN ENTERPRISES

Following are definitions of small business concerns, veteran-owned small business concerns, service-disabled veteran-owned small business concerns, HUB Zone small business concerns, minority business enterprises, small disadvantaged business concerns, women-owned small business concerns and labor surplus area business concerns (all called "Enterprises") as defined by the U.S. Federal Acquisition Regulations:

Small-Business Concern	Firms, including affiliates, that are independently owned and operated, not dominant in the field of operation in which they are bidding on Government contracts, and that qualify under the criteria and size standards for small businesses in 13 CFR Part 121 as determined by the SBA.
HUB Zone	A historically underutilized business zone which is located within one or more qualified census tracts, qualified metropolitan counties, or lands within the external boundaries of an Indian reservation. HUBZone's appear on the List of Qualified HUBZone Small Business Concerns maintained by the SBA.
Veteran-owned Small Business Concern	A small business concern – (1) not less than 51 percent of which is owned by one or more veterans (as defined at 38 U.S.C. 101(2)) or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more veterans; and (2) the management and daily business operations of which are controlled by one or more veterans.
Service-disabled Veteran-owned small Business Concern	(1) A small business concern – (i) not less than 51 percent of which is owned by one or more service-disabled veterans or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more service-disabled veterans; and (ii) The management and daily business operations of which are controlled by one or more service-disabled or, in the case of a veteran with permanent and severe disability, the spouse or permanent caregiver of such veteran. (2) Service-disabled veteran means a veteran, as defined in 38 U.S.C. 101(2), with a disability that is service-connected, as defined in 38 U.S.C. 101(16).
Small Disadvantaged Business Concern (Minority)	An offeror that represents, as part of its offer, that it is a small business under the size standard applicable to the acquisition; and either – It self certifies as a small disadvantaged business concern consistent with 13 CFR part 124, subpart B; and (i) No material change in disadvantaged ownership and control has occurred since its certification; (ii) Where the concern is owned by one or more disadvantaged individuals upon whom the certification is based does not exceed $750,000 after taking into account the applicable exclusions set forth at 13 CFR 124.104(c)(2); and (iii) It is identified, on the date of its representation, as a self certified small disadvantaged business concern in the database maintained by the SBA (Central Contractor Registration (CCR)).
Women-Owned Small Business Concern	A small business concern – 1) which is at least 51 percent owned by one or more women: or in the case of any publicly owned business, at least 51 percent of the stock which is owned by one or more women; and 2) whose management and daily operations are controlled by one or more women.

APPENDIX C

CONTRACTOR/SUPPLIER WORK HISTORY

The Contractor submits the following statement as to its experience qualifications:

1. If stated in the cover letter, provide only experience in work similar in type and magnitude to the identified Work Scope.
2. All awarded contracts have been satisfactorily completed, except as follows (Name any and all exceptions and reasons therefore, attaching additional pages if necessary):

_____

_____

_____

3. The following contracts are currently in progress or have been satisfactorily completed within the last three years or the period specified in the cover letter.
4. If you have not worked in the country specified in the cover letter within the period outlined in 3 above, add a separate page listing any work ever performed in that country. **[Item 4 does not apply to U.S. work.]**
5. Column Completion Notes:
   a. Name and Address. For past Bechtel work, include Bechtel Job No. and also asterisk any work requiring nuclear quality assurance.
   b. Work Description. Describe work scope and then indicate if prime or subcontract.
   c. Start/Stop. Provide starting date and actual/forecast completion by mo/yr, e.g., Jan 93/Sep94.
   d. Schedule and Budget. State either "over", "on", or "under" the contract schedule and budget.

Contractor/SUPPLIER WORK HISTORY							
	Customer Name, address, representative and phone no.	**Work Description**	**Location**	**Value**	**Start/Stop**	**Schedule**	**Budget**

List any awarded Contracts/Purchase Orders that were not satisfactorily completed: (List any and all exceptions and reasons therefore, attaching additional pages if necessary):

APPENDIX D

CONTRACTOR SAFETY AND HEALTH QUALIFICATION DATA

NAME OF COMPANY: _____

The above named Company submits the following Safety & Health qualification data:

1. SAFETY PERFORMANCE

1.1.a Provide a brief description of each fatality your firm has incurred in the three most recent years (add pages if required):

Year 20[ ]	Year 20[ ]	Year 20[ ]

1.1.b Provide a brief description of each fatality by any sub-tier subcontractor working under your direction has incurred in the three most recent years (add pages if required):

Year 20[ ]	Year 20[ ]	Year 20[ ]

1.2.a Provide the following information on your firm for the three most recent years:

	20[ ]	20[ ]	20[ ]
a. Number of lost workday cases.			
b. Number of restricted workday cases.			
c. Number of cases with medical attention only.			
d. Number of fatalities.			
e. Number of hours worked.			

1.2.b Provide the following information on any sub-tier subcontractor working under your direction for the three most recent years:

	20[ ]	20[ ]	20[ ]
a. Number of lost workday cases.			
b. Number of restricted workday cases.			
c. Number of cases with medical attention only.			
d. Number of fatalities.			
e. Number of hours worked.			

2. Are accident reports and report summaries sent to the following and how often?

	No	Yes	Monthly	Quarterly	Annually
a. Project Superintendent/Site Manager.	☐	☐	☐	☐	☐
b. Vice President/Manager of Construction	☐	☐	☐	☐	☐
c. Safety Director	☐	☐	☐	☐	☐
d. President of Firm	☐	☐	☐	☐	☐

3. Do you hold site safety meetings for field employees both Manual and Non-Manual?

Yes ☐ No ☐

How Often?

Weekly ☐ Bi-Weekly ☐ Monthly ☐ Less Often, As needed ☐

4. Do you conduct project safety inspections?

Yes ☐ No ☐

If yes, who conducts this inspection?

TITLE	HOW OFTEN?

5. How are accident records and accident summaries kept? How often are they reported?

	No	Yes	Monthly	Annually
a. Accidents totaled for the entire company	☐	☐	☐	☐
b. Accidents totaled by project	☐	☐	☐	☐
(1) Subtotaled by superintendent	☐	☐	☐	☐
(2) Subtotaled by foreman	☐	☐	☐	☐

6. How are costs of individual accidents kept? How often are they reported?

	No	Yes	Monthly	Annually
a. Costs totaled for the entire company	☐	☐	☐	☐
b. Costs totaled by project	☐	☐	☐	☐
(1) Subtotaled by superintendent	☐	☐	☐	☐
(2) Subtotaled by foreman	☐	☐	☐	☐

7. List key Safety and Health personnel planned for this project. Please list name and expected position. When a project has not been specified, list key company personnel.

NAME	POSITION	PROPOSED / CURRENT PROJECT

Attachment

8. Do you have a written safety & health program?

Yes ☐ No ☐

If yes, submit a copy for evaluation.

9. Do you have an orientation program for new hires?

Yes ☐ No ☐

If yes, submit a copy for evaluation. Does it include instruction on the following?

	Yes	No		Yes	No
a. Head protection	☐	☐	i. Fire protection	☐	☐
b. Eye protection	☐	☐	j. First aid facilities	☐	☐
c. Hearing protection	☐	☐	k. Emergency procedures	☐	☐
d. Respiratory protection	☐	☐	l. Toxic substances	☐	☐
e. Safety belts and lifeline	☐	☐	m. Trenching and excavation	☐	☐
f. Scaffolding	☐	☐	n. Signs, barricades, flagging	☐	☐
g. Perimeter guarding	☐	☐	o. Electrical safety	☐	☐
h. Housekeeping	☐	☐	p. Rigging and crane safety	☐	☐
	☐	☐	q. Road Safety (Driving)	☐	☐

10. Do you have a program for newly hired or promoted foremen?

Yes ☐ No ☐

If yes, submit a copy for evaluation. Does it include the following?

	Yes	No		Yes	No
a. Safe work practices	☐	☐	e. First aid procedures	☐	☐
b. Safety supervision	☐	☐	f. Accident investigation	☐	☐
c. Toolbox meetings	☐	☐	g. Fire protection and prevention	☐	☐
d. Emergency procedures	☐	☐	h. New worker orientation	☐	☐

11. Do you hold craft "toolbox" safety meetings?

Yes ☐ No ☐

How Often?

Weekly ☐ Bi-Weekly ☐ Monthly ☐ Less Often, As needed ☐

12. Do you have a written Hazard Communication program?

Yes ☐ No ☐

If yes, how is it implemented on each project?

Attachment

13. Do you have/require Material Safety Data Sheets (M.S.D.S.) for material/chemicals/equipment?

Yes ☐ No ☐

If yes, explain field procedure for informing craft workers about potential hazards:

14. List three (3) client references that could verify the quality and management commitment of your safety program.

	Name	Address	Phone No.
a.			
b.			
c.			

Attachment

Supplier Quality Assurance Questionnaire

	SUPPLIER QUALITY ASSURANCE QUESTIONNAIRE	

Supplier or Sub-Tier Name:

Location/Address of Supplier facility (ies):

Product Description:

Does the manufacturer (distributors should obtain the assistance of the manufacturer to complete this) or contractor have a written Quality Assurance Program (QAP) Management System that is developed, implemented and maintained?

Yes ☐ No ☐ [Hint: Double-click on a box to default to checked, then cut and paste box for the rest of the answers.]

QA/QC MANUAL TITLE _____

REVISION AND ISSUE DATE _____

ATTACH A TABLE OF CONTENTS OR LISTING AND OTHER SUPPORTING INFORMATION TO THE QUESTIONNAIRE

QA/QC program table of contents and other supporting information attached? Yes ☐ No ☐

IDENTIFY CODES AND/OR STANDARDS WITH WHICH YOUR QA/QC PROGRAM COMPLIES

Codes/Standards/Supplements	Yes	No	Comments/Equivalent
1. DOE Order 414.1__ (identify version), Attachment 2	☐	☐	
2. ASME NQA-1 _____ (identify year)	☐	☐	
3. ASME Section _____ (Certificate No._____)	☐	☐	
4. ISO _____ (Certificate No. _____)	☐	☐	

5. What industry standards do you currently use to develop software/firmware? _____

6. Other Codes and Standards: _____

ASME NQA-1-2008/ASME NQA-1a-2009

Indicate whether your QA/QC Manual and/or implementing procedures address the following:

ASME NQA-1 Program Elements	Yes	No	Procedure/Manual
ASME NQA-1, Requirement 1, Organization	☐	☐	
ASME NQA-1, Requirement 2, Quality Assurance Program	☐	☐	
ASME NQA-1, Requirement 2, Auditor/Lead Auditor Qualifications	☐	☐	
ASME NQA-1, Requirement 2, Qualification of Inspection and Test Personnel	☐	☐	
ASME NQA-1, Requirement 2, Qualification of Nondestructive Testing Personnel	☐	☐	
ASME NQA-1, Requirement 3, Design Control	☐	☐	
Do you develop software in accordance with NQA-1 software engineering requirements?	☐	☐	
ASME NQA-1, Requirement 4, Procurement Document Control	☐	☐	
ASME NQA-1, Requirement 5, Instructions, Procedures, and Drawings	☐	☐	

Indicate whether your QA/QC Manual and/or implementing procedures address the following:			
ASME NQA-1 Program Elements	**Yes**	**No**	**Procedure/Manual**
ASME NQA-1, Requirement 6, Document Control	☐	☐	
ASME NQA-1, Requirement 7, Control of Purchased Items and Services	☐	☐	
Do you dedicate commercial off-the-shelf software for use as a Commercial Grade Item in accordance with NQA-1 requirements?	☐	☐	
ASME NQA-1, Requirement 8, Identification and Control of Items	☐	☐	
ASME NQA-1, Requirement 9, Control of Special Processes Identify the welding codes_____	☐	☐	
ASME NQA-1, Requirement 10, Inspection	☐	☐	
ASME NQA-1, Requirement 11, Test Control	☐	☐	
ASME NQA-1, Requirement 12, Control of Measuring and Test Equipment	☐	☐	
Do your reference standards have a minimum accuracy four times greater than that of the measuring and test equipment being calibrated?	☐	☐	
ASME NQA-1, Requirement 13, Handling, Storage, and Shipping	☐	☐	
ASME NQA-1, Requirement 14, Inspection, Test, and Operating Status	☐	☐	
ASME NQA-1, Requirement 15, Control of Nonconforming Items	☐	☐	
ASME NQA-1, Requirement 16, Corrective Action	☐	☐	
ASME NQA-1, Requirement 17, Quality Assurance Records	☐	☐	
ASME NQA-1, Requirement 18, Audits	☐	☐	
ASME NQA-1, Subpart 2.2, Quality Assurance Requirements for Packaging, Shipping, Receiving, Storage, and Handling of Items for Nuclear Power Plants	☐	☐	
ASME NQA-1, Subpart 2.7, Quality Assurance Requirements for Computer Software for Nuclear Facility Applications	☐	☐	
ASME NQA-1, Subpart 2.14, Quality Assurance Requirements for Commercial Grade Items and Services	☐	☐	
Identify other ASME NQA-1 Part II, Subparts applicable to the quality assurance/quality control program_____			

DOE ORDER 414.1

Indicate whether your QA/QC Manual and/or implementing procedures address the following:			
DOE ORDER 414.1 Requirement	**Yes**	**No**	**Procedure/Manual**
DOE Order 414.1, Attachment 2, Quality Assurance Criterion (1) - Program Establish an organizational structure, functional responsibilities, levels of authority, and interfaces for those managing, performing, and assessing work. Establish management processes, including planning, scheduling, and providing resources for work. (An NQA-QA program will need to describe the management process for providing resources.)	☐	☐	
DOE Order 414.1, Attachment 2, Quality Assurance Criterion (2) - Personnel Training and Qualification Establish an organizational structure, functional responsibilities, levels of authority, and interfaces for those managing, performing, and assessing work. Establish management processes, including planning, scheduling, and providing resources for work.	☐	☐	

Indicate whether your QA/QC Manual and/or implementing procedures address the following:			
DOE ORDER 414.1 Requirement	**Yes**	**No**	**Procedure/Manual**
DOE Order 414.1, Attachment 2, Quality Assurance Criterion (3) - Quality Improvement Establish and implement processes to detect and prevent quality problems. Identify, control, and correct items, services, and processes that do not meet established requirements. Identify the causes of problems and work to prevent them. Review item characteristics, process implementation, and other quality-related information to identify items, services, and processes needing improvement. (The DOE Order extends the requirements of NQA-1 to all problems including all conditions [not limited to significant] adverse to quality and to all nonconforming items [not limited to generic]).	☐	☐	
DOE Order 414.1, Attachment 2, Quality Assurance Criterion (4) - Documents and Records Prepare, review, approve, issue, use, and revise documents to prescribe processes, specify requirements, or establish design. Specify, prepare, review, approve, and maintain records.	☐	☐	
DOE Order 414.1, Attachment 2, Quality Assurance Criterion (5) - Work Processes Perform work consistent with technical standards, administrative controls, and hazard controls adopted to meet regulatory or contract requirements using approved instructions, procedures, etc. Identify and control items to ensure their proper use. Maintain items to prevent their damage, loss, or deterioration. Calibrate and maintain equipment used for process monitoring or data collection.	☐	☐	
DOE Order 414.1, Attachment 2, Quality Assurance Criterion (6) - Design Design items and processes using sound engineering/scientific principles and appropriate standards. Incorporate applicable requirements and design bases in design work and design changes. Identify and control design interfaces. Verify/validate the adequacy of design products using individuals or groups other than those who performed the work. Verify/validate work before approval and implementation of the design.	☐	☐	
DOE Order 414.1, Attachment 2, Quality Assurance Criterion (7) - Procurement Procure items and services that meet established requirements and perform as specified. Evaluate and select prospective suppliers on the basis of specified criteria. Establish and implement processes to ensure that approved suppliers continue to provide acceptable items and services.	☐	☐	
DOE Order 414.1, Attachment 2, Quality Assurance Criterion (8) - Inspection and Acceptance Testing Inspect and test specified items, services, and processes using established acceptance and performance criteria. Calibrate and maintain equipment used for inspections and tests.	☐	☐	
DOE Order 414.1, Attachment 2, Quality Assurance Criterion (9) - Management Assessment Ensure that managers assess their management processes and identify and correct problems that hinder the organization from achieving its objectives.	☐	☐	
DOE Order 414.1, Attachment 2, Quality Assurance Criterion (10) - Independent Assessment Plan and conduct independent assessments to measure item and service quality and the adequacy of work performance and to promote improvement. Establish sufficient authority and freedom from line management for independent assessment teams. Ensure that persons conducting independent assessments are technically qualified and knowledgeable in the areas to be assessed.	☐	☐	

Indicate whether your QA/QC Manual and/or implementing procedures address the following:			
DOE ORDER 414.1 Requirement	**Yes**	**No**	**Procedure/Manual**
DOE Order 414.1, Attachment 2, Suspect/Counterfeit Items Preventing the introduction and use of S/CIs through engineering involvement, design, procurement, testing, inspection, maintenance, evaluation, disposition, reporting, trend analysis, and lessons learned work process controls. Training and informing managers, supervisors, and workers on S/CI processes and controls (including prevention, detection, and disposition of S/CIs). Identifying and disposing of S/CIs on site. Restricting S/CI use to only those items that have been found acceptable through engineering analysis and formal disposition process. Collecting, maintaining, disseminating, and using the most accurate, up-to-date information on S/CIs and associated suppliers using all available sources. (An NQA-1 QA program will need to be expanded to address Suspect/Counterfeit items.)	☐	☐	
DOE Order 414.1, Attachment 2, Safety Software Quality Requirements Is your software quality assurance program based on national or international standards? If yes, identify which ones apply below: ___ASME NQA-1, Part I, Requirement 3 ___ASME NQA-1, Part I, Requirement 11 ___ASME NQA-1, Part II, Subpart 2.7 Other_____	☐	☐	
DOE Order 414.1, Attachment 2, Safety Software Quality Requirements Is your software quality assurance program based on DOE G 414.1-4, *Safety Software Guide for use with 10 CFR 830 Subpart A, Quality Assurance Requirements, and DOE O 414.1C, Quality Assurance*?	☐	☐	
DOE Order 414.1, Attachment 2, Safety Software Quality Requirements Does your quality assurance program define a process for identifying and evaluating software failures and their effects on system performance (software hazard analysis)?	☐	☐	
DOE Order 414.1, Attachment 2, Safety Software Quality Requirements Does your software quality assurance program define a method for grading safety software and establishing controls based on the level of importance?	☐	☐	
DOE Order 414.1, Attachment 2, Safety Software Quality Requirements Does your software quality assurance program include controls for software configuration management and quality planning, software risk management, software procurement and supplier management, software requirements identification and management, software design and implementation, software verification and validation, and problem reporting and corrective action?	☐	☐	
DOE Order 414.1, Attachment 2, Safety Software Quality Requirements Do you train personnel who design, develop, or use safety software?	☐	☐	

General

Do you understand the questions above? Yes ☐ No ☐

If no, please provide your comments or suggestions. Also, provide any additional information relevant to your quality assurance program.

Preparer_____ Signature_____ Title_____
Date_____